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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/707,833	01/15/2004	Minoru Itou	SIC-04-001	1832
29863 75	90 06/20/2005		EXAM	INER
DELAND LAW OFFICE			PANG, ROGER L	
P.O. BOX 69 KLAMATH RIVER, CA 96050-0069			ART UNIT	PAPER NUMBER
	 ,		3681	

DATE MAILED: 06/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	<u></u>		Q EA
	Application No.	Applicant(s)	
	10/707,833	ITOU ET AL.	
Office Action Summary	Examiner	Art Unit	<u> </u>
	Roger L. Pang	3681	
The MAILING DATE of this communication app		eet with the correspondence a	ddress
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing - earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, y within the statutory minimum will apply and will expire SIX (may a reply be timely filed n of thirty (30) days will be considered tim (6) MONTHS from the mailing date of this come ABANDONED (35 U.S.C. § 133).	ely. communication.
Status			
1) Responsive to communication(s) filed on	_·		
,-	action is non-final.		
3) Since this application is in condition for alloward			ne merits is
closed in accordance with the practice under E	Ex parte Quayle, 193	5 C.D. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) <u>1-27</u> is/are pending in the application			
4a) Of the above claim(s) is/are withdraw		on.	
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1 and 19-27</u> is/are rejected.			
7)⊠ Claim(s) <u>2-18</u> is/are objected to.			
8) Claim(s) are subject to restriction and/o	r election requireme	nt.	
Application Papers			
9)☐ The specification is objected to by the Examine	er.		
10) The drawing(s) filed on is/are: a) acc	epted or b) object	ed to by the Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct			• • • • • • • • • • • • • • • • • • •
11)☐ The oath or declaration is objected to by the Ex	xaminer. Note the at	tached Office Action or form F	PTO-152.
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 	ts have been receive	ed.	
3. Copies of the certified copies of the prior			al Stage
application from the International Burea			
* See the attached detailed Office action for a list	of the certified copic	es not received.	
Attachment(s)		(272.442)	
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		erview Summary (PTO-413) per No(s)/Mail Date	
Notice of Draitsperson's Patent Drawing Review (P10-9-40) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date) 5) 🔲 No	tice of Informal Patent Application (Pner:	TO-152)

DETAILED ACTION

The following action is in response to application 10/707,833 filed on January 15, 2004.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 24 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 24 depends upon itself, thereby providing no antecedent basis. It is suggested that applicant change the dependency to --claim 23--.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 19-23 and 25-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Matsuo. With regard to claim 1, Matsuo teaches an internal hub transmission for a bicycle comprising a drive member 52 rotatably supported around a hub axle 51; a hub body 53 rotatably supported around the hub axle; a planetary gear mechanism that communicates rotational force from the drive member to the hub body through a plurality of power transmitting paths (Fig. 1); a clutch member 75 that controls the planetary gear mechanism; and a first one-way clutch 80 mechanism disposed in force transmission path between the drive member and the clutch

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member. With regard to claim 19, Matsuo teaches the transmission, wherein the drive member includes a sprocket-supporting portion structured to support at least one sprocket 57, and further comprising: a first bearing assembly 55 rotatably supporting the drive member on the hub axle; and a second bearing assembly 60 rotatably supporting the drive member on the hub axle (indirectly). With regard to claim 20, Matsuo teaches the transmission, wherein the first bearing assembly comprises; an inner race 56 disposed about an outer peripheral surface of the hub axle; and an outer race (integral with 52) disposed about an inner peripheral surface of the drive member. With regard to claim 21, Matsuo teaches the transmission, wherein the first bearing assembly is approximately axially centered relative to the sprocket-supporting portion (Fig. 1). With regard to claim 22, Matsuo teaches the transmission wherein the second bearing assembly is located at an axially outer position of the drive member (Fig. 1). With regard to claim 23, Matsuo teaches the transmission (see rejections for claims 1 and 20 above, except the first bearing assembly is 60, the second bearing assembly is 55). With regard to claim 25, Matsuo teaches the transmission, wherein the first bearing assembly 60 is located at an axially outer position of the drive member, and wherein the second bearing assembly 55 is located axially inward of the first bearing member. With regard to claim 26, see rejection of claim 21 above.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 24 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsuo as applied to claims 23 and 26 above, and further in view of Steuer. With regard to claims 24 and 27, Matsuo teaches the transmissions, but lacks the teaching wherein the drive member is structured to support a plurality of sprockets. Steuer teaches an internal hub transmission wherein a drive member 12 is structured to support a plurality of sprockets 18a-e. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Matsuo to employ a multi-sprocket supporting drive member in view of Steuer in order to increase the number of gear ratios present in the system.

Allowable Subject Matter

Claims 2-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hillyer, Shoge, Okochi, and Nagano have been cited to show similar transmission arrangements.

FACSIMILE TRANSMISSION

Submission of your response by facsimile transmission is encouraged. Group 3600's facsimile number is (703) 305-3597. Recognizing the fact that reducing cycle time in the processing and examination of patent applications will effectively increase a patent's term, it is to your benefit to submit responses by facsimile transmission whenever permissible. Such submission will place the response directly in our examining group's hands and will eliminate Post Office processing and delivery time as well as the PTO's mail room processing and delivery time. For a complete list of correspondence not permitted by facsimile transmission, see MPEP 502.01. In general, most responses and/or amendments not requiring a fee, as well as those requiring a fee but charging such fee to a deposit account, can be submitted by facsimile transmission. Responses requiring a fee which applicant is paying by check should not be submitting by facsimile transmission separately from the check.

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(Signature)

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roger L. Pang whose telephone number is 571-272-7096. The examiner can normally be reached on 5:30am to 4:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor can be reached on 571-272-7095. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Roger L Pang Primary Examiner Art Unit 3681

June 10, 2005